SCENIC T

OPERATING MANUAL

FUJITSU COMPUTERS SIEMENS

Are there ...

... any technical problems or other questions which you would like to be clarified?

Please contact:

- your sales partner
- your sales outlet

Further information can be found in the "Safety, Warranty and Ergonomics" manual.

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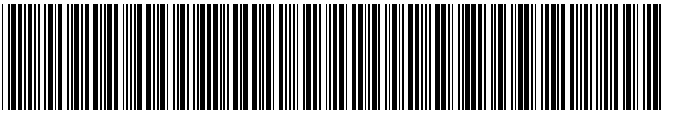

A26361-K657-Z100-1-7619

SCENIC T

Operating Manual

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Important notes

Preparing for use

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Troubleshooting and tips

System expansions

Technical data

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March 2001 edition

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Introduction

This Operating Manual tells you how to put your PC into operation and how to operate it in daily use. The Operating Manual applies for all configuration levels. Depending on the configuration level chosen some of the hardware components described may not be available on your PC. Please observe the notes on your operating system.

You can incorporate operable drives (for example DAT drive) as well as other boards.

Depending on the configuration selected, the operating system is preinstalled on your hard disk (e.g. Windows 2000).

Your PC has a number of security features to ensure that no unauthorised persons can access your data, for example, you can activate a screen saver with password protection. For example, you can activate a screen saver with password protection. The security functions in the *BIOS Setup* also allow you to protect your data by means of passwords. Systems with a SmartCard reader offer additional protection.

Further information on this PC is provided:

- in the "Safety, Warranty and Ergonomics" manual
- in the Operating Manual for the monitor
- in the Technical Manual for the system board
- in the "BIOS Setup" manual
- in your operating system documentation
- in the information files (e.g. **.TXT*, **.DOC*, **.WRI*, **.HLP*)

Some of the manuals listed can be found on the "Drivers & Utilities" CD provided with your computer. These manuals can be read and printed with Acrobat Reader, also contained on the "Drivers & Utilities" CD.

Notational conventions

The meanings of the symbols and fonts used in this manual are as follows:

indicates information which is important for your health or for preventing physical damage.

indicates important information which is required to use the system properly.

► Text which follows this symbol describes activities that must be performed in the order shown.

`Text in this typeface` indicates screen outputs.

Text in italics indicates commands or menu items.

"Quotation marks" indicate names of chapters or terms.

Important notes

In this chapter you will find information regarding safety which it is essential to take note of when working with your PC. The manufacturer's notes contain helpful information on your PC.

Safety

Pay attention to the information provided in the manual "Safety, Guarantee and Ergonomics" and to the following notes.

During installation and before operating the device, please observe the instructions on environmental conditions in the chapter entitled "Technical data" as well as the instructions in the chapter "Preparing for use".

Please check whether the device is correctly set for the local power supply (see chapter "Preparing for use").

The On/Off switch does not separate the system unit completely from the mains voltage. To completely disconnect the electricity supply, remove the power plug from the mains supply.

Replace the lithium battery on the system board in accordance with the instructions in the chapter "System expansions - Replacing lithium battery".

Caution: components in the system can get very hot.

Manufacturer’s notes

Keep this Operating Manual together with your device. If you pass on the device to third parties, you should include this manual.

Energy saving

When the PC is delivered, some energy-saving functions are already set (see the Technical Manual for the system board or the "BIOS Setup" manual).

- If you are not using your PC, switch it off.
- In the *BIOS Setup* you may set further energy-saving functions for the PC (see the Technical Manual of the system board or in the manual "BIOS Setup").
- Depending on the operating system, you can set additional power-management features.

Energy saving under Windows 9x

The *Screen Saver* tab allows you to set further energy saving functions for your screen. Select the following item in the menu: *Start - Settings - Control Panel - Display - Display Properties - Screen Saver - Energy saving features of monitor*.

With the default setting *Control Panel - Power - Advanced* additional energy saving features of Windows 9x are available.

Energy saving under Windows 2000

The *Screen Saver* tab allows you to set energy-saving functions for your screen. Select the following item in the menu: *Start - Settings - Control Panel - Display - Display Properties - Screen Saver - Energy saving features of monitor*.

With the default setting *Control Panel - Power Options - Advanced* additional power management features of Windows 2000 are available.

Disposal and recycling

This device has been manufactured to the highest possible degree from materials which can be recycled or disposed of in a manner that is not environmentally damaging. The device may be taken back after use to be recycled, provided that it is returned in a condition that is the result of normal use. Any components not reclaimed will be disposed of in an environmentally acceptable manner.

Devices protected by a 36 month warranty from Fujitsu Siemens meet the requirements of the eco-label "Blauer Engel". The warranty starts on the day of delivery (sale date) by Fujitsu Siemens Computers or a Fujitsu Siemens partner.

The repair of a device displaying the eco-label is secured for at least 5 years from the date of purchase.

Further information about eco-label products can be found on the Internet under *www.blauer-engel.de*.

Do not throw lithium batteries or accumulators into the household waste. They must be disposed of in accordance with local regulations concerning special waste.

If you have any questions about disposal of the batteries or system, please contact your local or:

Fujitsu Siemens Computers GmbH
Recyclingcenter
D-33106 Paderborn

Tel.: +49 (0) 5251 81 80 10
Fax: +49 (0) 5251 81 80 15

CE certificate

The shipped version of this device complies with the requirements of the EEC directives 89/336/EEC "Electromagnetic compatibility" and 73/23/EEC "Low voltage directive".

FCC Class B Compliance Statement

The following statement applies to the products covered in this manual, unless otherwise specified herein. The statement for other products will appear in the accompanying documentation.

NOTE:

This equipment has been tested and found to comply with the limits for a "Class B" digital device, pursuant to Part 15 of the FCC rules and meets all requirements of the Canadian Interference-Causing Equipment Regulations. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in strict accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Fujitsu Siemens Computers GmbH is not responsible for any radio or television interference caused by unauthorised modifications of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by Fujitsu Siemens Computers GmbH The correction of interference caused by such unauthorised modification, substitution or attachment will be the responsibility of the user.

The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may violate FCC rules.

Transporting the PC

Transport all parts separately in their original packaging or in a packaging which protects them from knocks and jolts, to the new site. Do not unpack them until all transportation manoeuvres are completed.

Never drop the monitor (risk of implosion)!

Cleaning the PC

Turn off all power and equipment switches and remove the power plug from the mains supply.

Do not clean any interior parts yourself, leave this job to a service technician.

Do not use any cleaning agents that contain abrasives or may corrode plastic.

Ensure that no liquid enters the system.

Ensure that the ventilation areas of the system unit and the monitor are free.

Cleaning the system unit and the monitor

Wipe the system unit and monitor casing with a dry cloth. If particularly dirty, use a cloth that has been moistened in mild domestic detergent and then carefully wrung out.

Cleaning the keyboard and the mouse

Use disinfectant wipes to clean the keyboard and the mouse.

The mouse mechanism and the mouse ball can be cleaned by removing the retaining ring on the underside of the mouse.

Additional information can be found in the documentation for your keyboard and mouse.

Preparing for use

Please take note of the safety information in the chapter "Important notes".

Unpacking and checking the delivery

It is recommended not to throw away the original packaging material! It may be required for reshipment at some later date.

- ► Unpack all the individual parts.
- ► Check the delivery for damage incurred during transportation.
- ► Check whether the delivery agrees with the details in the delivery note.

Should you discover that the delivery does not correspond to the delivery note, notify your local sales outlet immediately.

Steps for initial setup

First-time setup includes the connection of the monitor, mouse and keyboard to the system unit and the setup of the supplied software.

External devices

If you have received other devices in addition to your PC (e.g. a printer or a modem), do not connect these until after the initial installation. The following sections contain a description of how to connect these external devices: "Connecting external devices to the serial port" and "Connecting external devices to the parallel port".

Drives and boards

If you have received drives or boards with your PC, please do not install them until after first-time setup. How to install drives and boards is described in the chapter "System expansions".

Perform the following steps in the prescribed order:

1. Decide where you are going to use the PC and set up the PC.
2. Connect the monitor, mouse and keyboard to the PC.
3. Check the rated voltage of the PC and connect it to mains voltage.
4. Switch the PC on and follow the instructions on the screen.

Setting up the PC

When installing your PC, give consideration to the recommendations and safety notes in the manual "Safety, Guarantee and Ergonomics".

Set up the PC only in its correct orientation. The points to observe are illustrated on the following pages.

We recommend that you place your equipment on a surface with good anti-slip qualities. In view of the multitude of different finishes and varnishes used on furniture, it is possible that the rubber feet of the devices will mark the surface they stand on.

Do not expose the PC to extreme environmental conditions (see chapter "Technical data") and protect it from dust, humidity and heat.

Provide at least 200 mm of clearance on the left, in front of and behind the ventilator area of the system unit to ensure adequate ventilation. Do not cover the ventilation areas of the monitor and the system unit.

Do not place several system units one above the other.

Connect the monitor, mouse and keyboard

The ports for monitor, mouse and keyboard are on the rear and on the front of the system unit.

PS/2 keyboard port / purple

PS/2 mouse port / green

Monitor port / blue

USB port / black

Connecting the keyboard

Depending on the equipment level selected, your PC will be supplied with a standard keyboard or a USB keyboard.

Connecting standard keyboard

Use the supplied keyboard cable only.

- ► Plug the other end of the keyboard cable (square plug) into the socket on the underside of the keyboard.
- ► Plug the round keyboard cable connector into the port marked with this symbol on the system unit.

Connecting USB keyboard

Use the supplied keyboard cable only.

- ► Plug the other end of the keyboard cable (square plug) into the socket on the underside of the keyboard.
- ► Insert the rectangular USB plug of the keyboard cable into the USB port on the system unit.

Connecting the mouse

Depending on the equipment level selected, your PC will be supplied with a PS/2 mouse or a USB mouse.

Connecting a PS/2 mouse

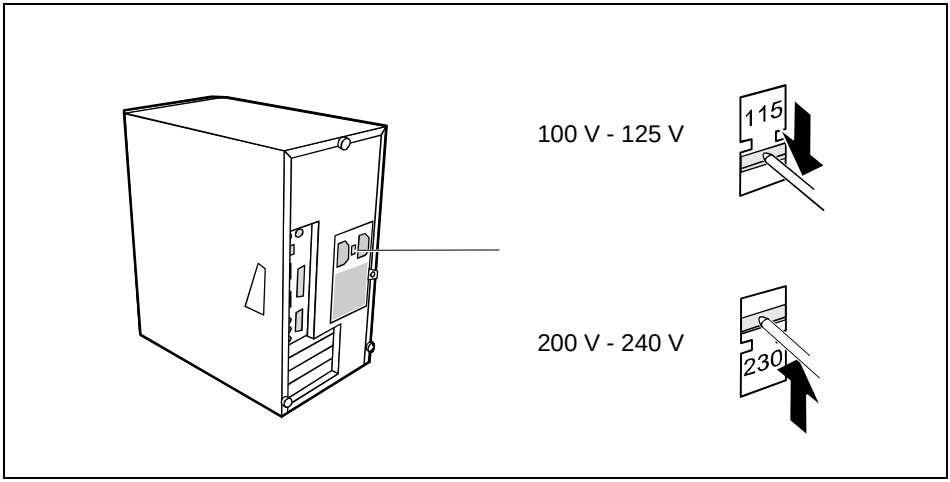
► Connect the PS/2 mouse to the PS/2 mouse port on the system unit.

Connecting USB mouse

► Connect the USB mouse to the USB port on the system unit.

i If you do not attach a mouse at the PS/2 mouse port , you can disable the mouse controller in the *BIOS Setup* in order to free the IRQ12 for a different application.

Connecting the PC to the electricity supply

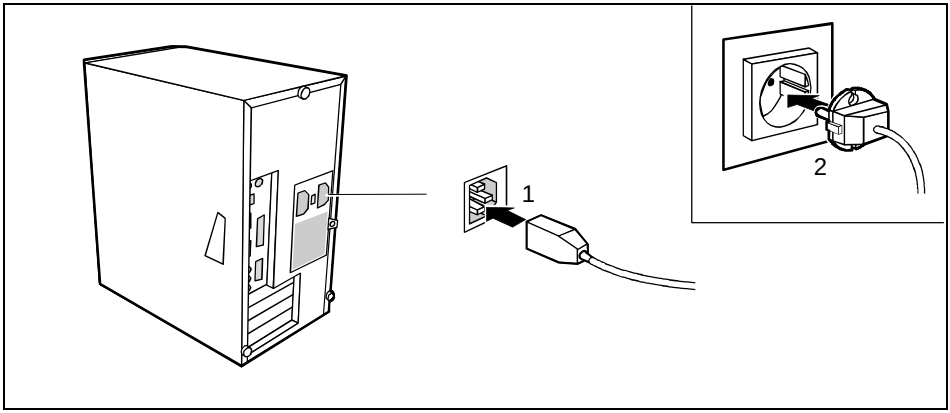


► Check the voltage setting.

The value displayed must agree with the local mains voltage:

115 = 100 V to 125 V 230 = 200 V to 240 V

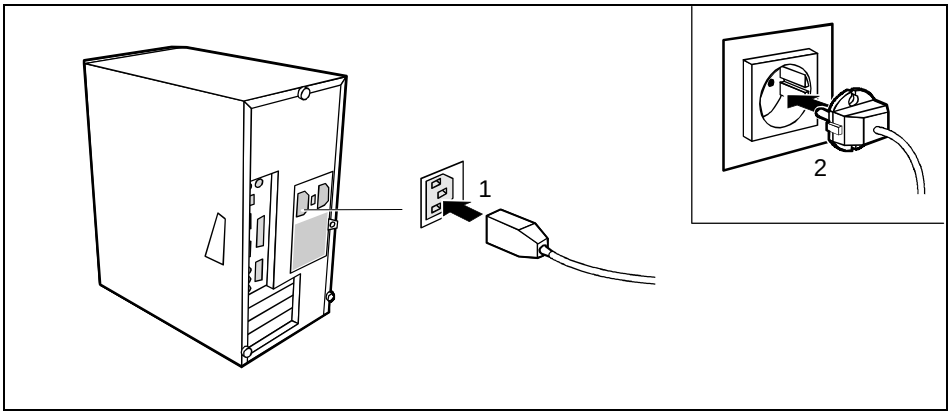
If the rated voltage does not agree with the local mains voltage, you must move the wiper switch to the correct position.



► Plug the system unit's power cable into the system unit (1) and then into the grounded mains outlet (2).

Connecting the monitor

- ► Follow the instructions contained in the monitor manual to prepare the monitor for operation.
- ► Plug the data cable of the monitor into the monitor port of the system unit.



- ► Depending on the connector, plug the monitor power cable into either the system unit (1) or the grounded mains outlet (2).

You may only plug the monitor power cable into the monitor connector if the rated current of the monitor is less than 1.5 A (230 V) or 3 A (115 V). The rated current for the monitor is given on the monitor itself and in the Operating Manual for the monitor.

Initial switch-on: Software will be installed

If the PC is connected to a network, the network protocol is required as well as the user and server details. Contact your network administrator if you have any questions about these settings.

When you switch on your PC for the first time the supplied software is installed and configured. You should plan some time for this, as this process may not be interrupted.

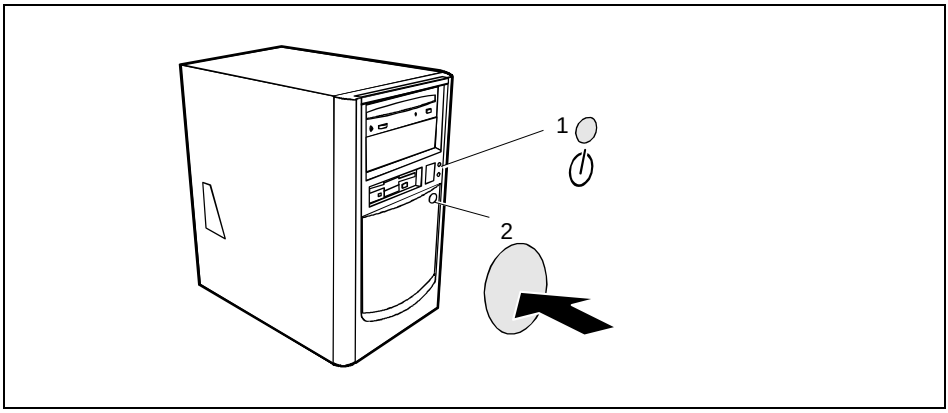
Once the installation has been started the PC must not be switched off!

During installation the PC may only be rebooted when you are requested to do so!

Otherwise the installation will be not be performed correctly. If a fault occurs in the installation the contents of the hard disk must be completely restored.

You may need the licence number for Windows during the installation. This number is located on a sticker on your PC.

- ► Switch the monitor on (see the Operating Manual for the monitor).



The power-on indicator (1) lights up orange. (If the power-on indicator does not light up, see the section "Power-on indicator remains unlit after you have switched on your device".)

► Press the ON/OFF switch (2).

The PC starts. The power-on indicator lights green. (If the screen remains dark, see the section "The screen stays blank" or the monitor operating manual.)

► During installation follow the instructions on screen.

Consult the operating system manual if there is anything unclear about the requested input data.

i You will find further information about the system, drivers, utilities, updates, and manuals etc. on the "Drivers & Utilities" CD supplied.

Connecting external devices

Do not connect or disconnect cables during a thunderstorm.

Always take hold of the actual plug. Never unplug a cable by pulling the cable itself.

Connect and disconnect the cables in the order described below.

With the exception of USB devices, the power plug must be pulled when you connect the external devices!

Read the documentation on the external device before connecting it.

Connecting cables

- Turn off all power and equipment switches.
- Pull all power plugs out of grounded mains outlets.
- Connect all cables at the system unit and peripherals. You must observe the information provided in the chapter "Important notes".
- Plug all data communication cables into the utility sockets.
- Plug all power cables into the grounded mains outlets.

Disconnecting cables

- Turn off all power and equipment switches.
- Pull all power plugs out of grounded mains outlets.
- Unplug all data communication cables from the utility sockets.
- Disconnect all cables from the system unit and peripherals.

USB devices are hot-pluggable. Therefore, the cables from USB devices can connected and disconnected with the system switched on.

Additional information can be found in the documentation for the USB devices.

Connections on the system unit

The ports for external devices are on the rear and on the front of the system unit. The ports available on your PC depend on the configuration level you have selected. The standard ports are marked with the symbols shown below (or similar). Exact details of the position of the ports are supplied in the Technical Manuals for the boards.

Keyboard port / purple

PS/2 mouse port / green

Serial interface 1 / turquoise

Serial interface 2 / turquoise

Monitor port / blue

Parallel interface / Printer / burgundy

Headphones port / orange

Microphone jack (mono) / pink

Audio output (Line out) / lime green

Audio input (Line in) / light blue

Game port / gold

SCSI connection

USB - Universal Serial Bus / black

LAN connector

Some of the devices that you connect require special drivers (see the operating system and device documentation).

Connecting external devices to the serial port

External devices can be connected to the serial port (e.g. a modem).

- ► Connect the data cable to the external device.
- ► Connect the data cable to the serial port .

For an exact description of how to connect external devices to the serial port , please see the device documentation.

Settings of the serial port

If you need to change the settings of the serial (e.g. address, interrupt), you can do so in the *BIOS Setup*. The settings for the interface are described in the Technical Manual for the system board or in the "BIOS Setup" manual.

Device drivers

The devices connected to the serial port require drivers. Your operating system already includes many drivers . But if the driver you need is not on the hard disk please install it from the data carrier supplied with the device or with the application programme.

Connecting external devices to the parallel port

External devices can be connected to the parallel port (e.g. a printer).

- ► Connect the data cable to the external device.
- ► Connect the data cable to the parallel port .

For an exact description of how to connect external devices to the parallel port, please see the device documentation.

Settings of the parallel port

If you need to change the settings of the parallel port (e.g. address, interrupt), you can do so in the *BIOS Setup*. The settings for the interface are described in the Technical Manual for the system board or in the "BIOS Setup" manual.

Device drivers

The devices connected to the parallel port require drivers. Your operating system already includes many drivers . But if the driver you need is not on the hard disk please install it from the data carrier supplied with the device or with the application programme.

Operation

Switching on the PC

- ► Switch the monitor on (see the Operating Manual for the monitor).
- ► Switch the PC on with the ON/OFF switch.

The power-on indicator turns green and the PC will start.

While the PC boots, the screen remains dark for up to a minute depending on the system configuration. To see the start-up messages, you can switch off this standard setting in the *BIOS Setup* in the *Quiet Boot* entry.

If you have assigned the system password, you must enter this when requested to do so, in order to start the operating system.

Switching off the PC

- ► Shut down your operating system (e.g. Windows in the *Start* - *Exit* menu).
- ► If the operating system does not automatically switch the system unit off, turn the system unit ready-to-operate when requested to do so by pressing the ON/OFF switch.

If the system unit is ready-to-operate, the power-on indicator lights up orange. The system unit uses a minimum of electricity.

The On/Off switch does not separate the system unit from the mains voltage. To disconnect the electricity supply completely, remove the power plug from the socket.

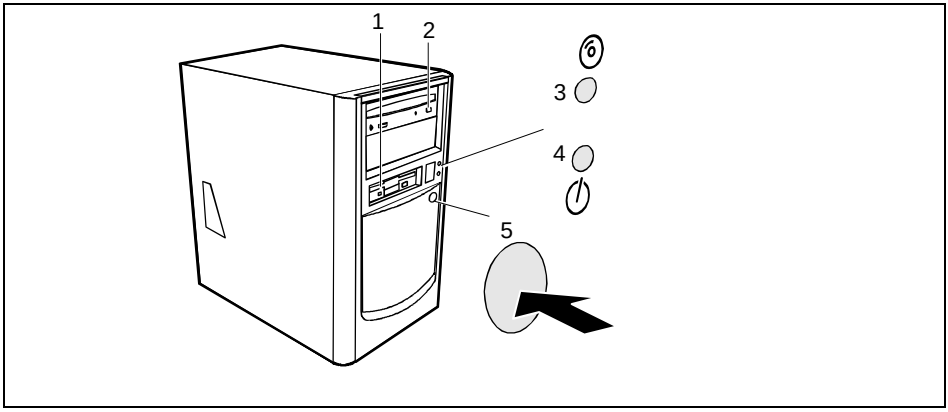
- ► Switch the monitor off (see the Operating Manual for the monitor).

Placing a PC (with soft power off function) in a ready-to-operate state by means of software

With the soft power off function the PC automatically switches off (standby) or switches into the energy-saving mode after the operating system is shut down. Prerequisite: Your system must support switching off with software and this functionality must be enabled in *BIOS Setup*. The soft power off software may also need to be installed on Windows NT systems.

You can also switch your PC into the standby mode via the *DeskView* software with the *DeskOff* programme.

Indicators on the system unit



1 = Floppy disk indicator
2 = CD-ROM indicator
3 = Hard disk indicator
4 = Power-on indicator
5 = ON / OFF switch

1 - Floppy disk indicator

The indicator lights up when the floppy disk drive of the system unit is accessed. You may only remove the floppy disk when the indicator is unlit.

2 - CD-ROM indicator

The indicator lights up when the CD-ROM drive of the system unit is accessed. You may only remove the CD when the indicator is dark.

3 - Hard disk indicator

The indicator lights up when the hard disk drive of the system unit is accessed.

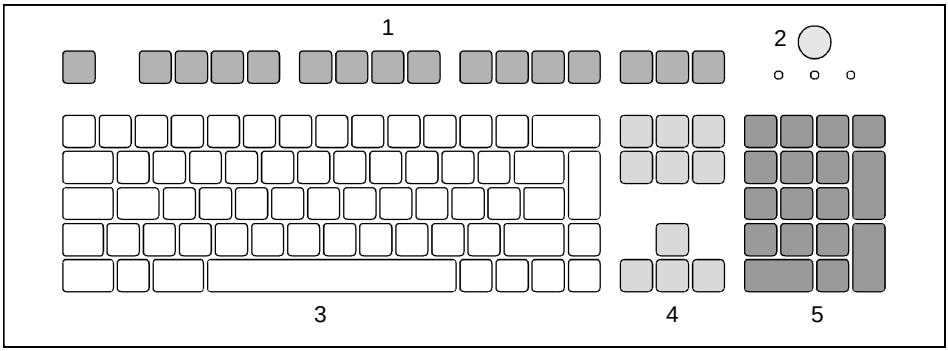
4 - Power-on indicator

- green:
  The system unit is on.
- orange:
  The system unit is ready-to-operate.
  In this mode the PC consumes very little power and can be switched on at the ON/OFF switch.
- flashing green/orange:
  The indicator only flashes on systems which support the ACPI function **(A**dvanced **C**onfiguration and **P**ower Management **I**nterface).
  The system unit is in the energy-saving mode (standby). After being switched on with the ON/OFF switch, the PC returns to the state it was in before the energy-saving mode. In the energy-saving mode the system unit may not be disconnected from the mains supply, as this may otherwise result in data loss.

5 - ON/OFF switch

Switches the PC on or off. With Windows 98 with ACPI or with Windows 2000 you can set additional functions of the ON/OFF switch in the Control Panel (Power management).

Keyboard



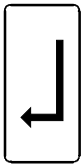
1 = Function keys
2 = ON/OFF switch (optional)
3 = alphanumeric keypad
4 = Cursor control keys
5 = numeric keypad (calculator keypad)

Important keys and key combinations

The following description of keys and key combinations refers to MS Windows. Details of other keys and key combinations can be found in the documentation of the relevant application programme.

ON/OFF switch
Depending on the setting in the *BIOS setup*, the system can be switched on or off with this switch. With Windows 98 with ACPI or with Windows 2000 you can set additional functions of the ON/OFF switch in the Control Panel.

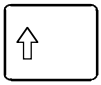
On some keyboards the ON/OFF switch can only be used with ACPI. Otherwise the key is inoperative.



Enter key
confirms or starts the marked selection. The enter key is also referred to as the "Return" key.

Start key
calls up the Windows *START* menu.

Menu key
invokes the menu for the marked item.

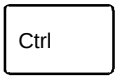


Shift key
enables upper-case letters and the upper key symbols to be used.

Alt Gr (e.g. German keyboard)
produces a character shown on the right-hand side of a key (e.g. the character "\" on the key ß).

Euro key
enables the output of the euro symbol.

Num Lock key
by pressing the Num Lock key you switch between the upper- and lower-case levels of the calculator keypad.
When the Num Lock indicator is lit the digit and comma keys are active.
When the Num Lock indicator is not lit the cursor control functions are active in the Numeric keypad.



Ctrl key
starts key combination actions.

Working with floppy disks

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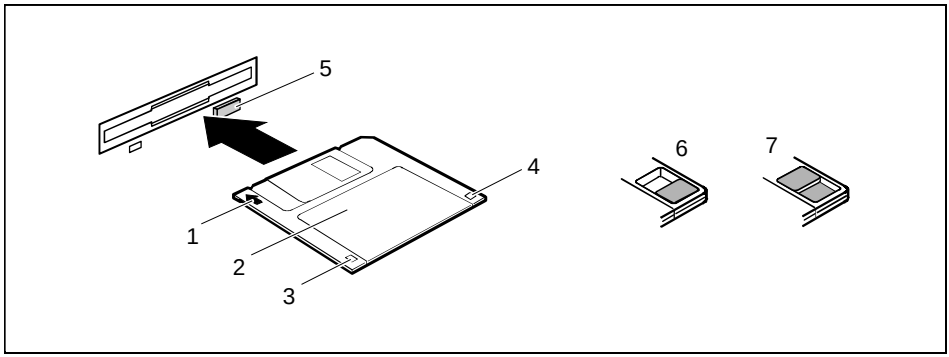
Follow the instructions supplied by the vendor of the floppy disks.
Never clean the floppy disk drives with cleaning disks. Even one attempt would destroy the read/write head in the disk drive within 20 seconds.



1 = Insertion direction
2 = Label area
3 = Write protection switch for a 720 KB or a 1.44 MB floppy disk
4 = Identification of a 1.44 MB floppy disk or write protect switch on a 120 MB floppy disk
5 = Eject button for inserted floppy disks
6 = Disk is write-protected
7 = Disk is not write-protected

- ► To insert a floppy disk, push it into the drive in the insertion direction until it engages. The label should be facing upward.
- ► To remove the floppy disk, press the eject button (5).

The write-protect switch enables you to protect the data on the floppy disk from inadvertent overwriting or deletion.

- ► To protect the data on the floppy disk from being overwritten, push the write-protect switch to position (6). The hole is now visible.
- ► To remove write protection, push the switch to position (7). The hole is now covered.

Settings in BIOS Setup

The *BIOS Setup* menu allows you to set your hardware configuration and system functions. When the PC is delivered, the default entries are valid (see Technical Manual for the system board or the manual "BIOS Setup"). You may customise these settings to your requirements in the *BIOS Setup*.

The Technical Manual for the system board shows you how to call and operate *BIOS Setup*. The menus and setting options provided by the *BIOS Setup* are also described in detail.

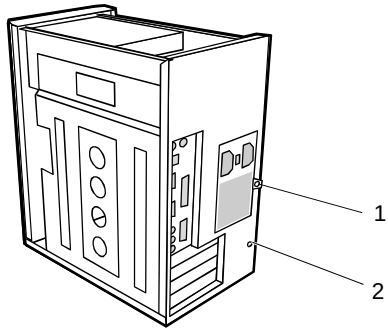
Property and data protection

Software functions and mechanical locking offer a broad range of functions for protecting your PC and your personal data from unauthorised access. You can also combine these functions.

Anti-theft protection

There are two ways to protect your PC from theft:

- with a chain and the eye (1)
- with the Kensington Lock device (2) and with a Kensington MicroSaver



Kensington Lock

Access protection under Windows

Under MS-Windows you can activate a screen saver and protect it with a password. Only those users who know the password can deactivate the screen saver and access any open files. Detailed information on screen savers is provided by the associated help function.

BIOS Setup security functions

The *Security* menu in *BIOS Setup* offers you various options for protecting your personal data against unauthorised access, e.g.:

- Preventing unauthorised *BIOS Setup* entry
- Preventing unauthorised system access
- Preventing unauthorised access to the settings of boards with their own BIOS
- Preventing system booting from the diskette drive
- Activating virus warnings
- Preventing unauthorised writing of diskettes
- Protecting BIOS from overwriting
- Protecting the PC from being switched on by an external device

You can also combine these functions.

You will find a detailed description of the *Security* menus and how to assign passwords in the Technical Manual for the system board or in the "BIOS Setup" manual.

Access protection with SICRYPT PC Lock

With SICRYPT PC Lock you protect your system from unauthorised booting. Then a system can only be booted when the user inserts a valid SmartCard in the SmartCard reader and enters his/her personal code number (PIN). To use PC Lock you require the following components:

- External or internal SmartCard reader
- PC Lock installed (see manual "BIOS Setup")
- SICRYPT SmartCard

There are two different SmartCards - the Admin SmartCard and the User SmartCard. These differ in their memory capacity. In addition to the access rights, you can also save other safety options on the Admin SmartCard (e.g. fingerprints with the *Smarty 2* software).

PC Lock controls access to your PC. When a SmartCard is initialised, rights are assigned for system access (system, setup, system+setup, admin). You can configure several SmartCards for one system and initialise them with different rights.

In this way users can be divided into user groups. Users of a user group use SmartCards with the same rights.

Additional instructions for PC Lock

Do not use PC Lock on systems controlled by tele-maintenance. If a SmartCard is inserted and the User PIN must be entered, an automatic system boot is blocked. For example, this is the case with "Wake On LAN", or when software is to be installed via the network that requires a system reboot.

After you have initialised the first SmartCard, the entry *PC-Lock* can no longer be deactivated (*Disabled*) in the *BIOS Setup*.

If you also want to use other security software in addition to PC Lock (e.g. *SmartGuard Pro*), please read the documentation on your security software beforehand.

PC Lock permissions

You can initialise a SmartCard with one of the following rights:

System	The system starts following entry of the user PIN. You can change the user PIN.
Setup	You can open and change the *BIOS Setup* and change the user PIN.
System+Setup	The system starts following entry of the user PIN. You can open and change the *BIOS Setup* and change the user PIN.
Admin	The system starts following entry of the user PIN. You can change the user PIN an the administrator PIN, unlock locked SmartCards, open and change the *BIOS Setup* and generate additional SmartCards for this system.

For instructions on how to install and operate SICRYPT PC Lock, and how to initialise SmartCards, see manual "BIOS Setup".

Operating the SmartCard reader

- Operating the internal SmartCard reader

You can switch on the PC by inserting your SmartCard. If the SmartCard reader has been released, the SmartCard reader indicator on the front of the PC flashes green.

- Operating the external SmartCard reader

After the PC is switched on, you will be prompted to insert your SICRYPT SmartCard.

Troubleshooting and tips

Take careful note of the safety warnings in the "Safety, Warranty and Ergonomics" manual and in the "Preparing for use" chapter, when you connect or disconnect cables.

If a fault occurs, try to correct it as described:

- in this chapter
- in the documentation of the connected devices
- in the help systems of the software used.

If you fail to correct the problem, proceed as follows:

- ► Switch the PC off.
- ► Make a note of the steps and the circumstances that led to the fault.
- ► Make a note of any error messages displayed.
- ► Note the ID number of your device.
- ► Contact your sales outlet or our customer service centre.

Installing new software

When installing programmes or drivers, important files may be overwritten and modified. To be able to access the original data in the case of any problems following installation, you should backup your hard disk prior to installation.

Power-on indicator remains unlit after you have switched on your device

This may be due to the following:

The electricity supply is faulty

- ► Check that the power cable is plugged properly into the system unit and grounded mains outlet.
- ► Switch the PC on at the power switch.

Internal power supply overloaded

- ► Disconnect the power cable of the system unit from the grounded mains outlet.
- ► Wait for a moment.
- ► Plug the power cable into the grounded mains outlet again.
- ► Switch the PC on at the power switch.

The screen stays blank

If your screen remains blank this may be due to the following:

Monitor is switched off

► Switch your monitor on.

Power saving has been activated (screen is blank)

► Press any key on the keyboard.

or

► Deactivate the screen saver. Enter the appropriate password.

Brightness control is set too dark

► Adjust the brightness control. For detailed information, please refer to the Operating Manual supplied with your monitor.

Power cable not connected

► Switch off the monitor and the PC.

► Check that the power cable of the monitor is properly connected to the monitor and, depending on the connector, to the system unit or to the grounded mains outlet.

► Check that the power cable of the PC is plugged properly into the system unit and grounded mains outlet.

► Switch on the monitor and the system unit.

Monitor cable not connected

► Switch off the monitor and the system unit.

► Check that the monitor cable is properly connected to the system unit and monitor.

► Switch on the monitor and the system unit.

Wrong monitor has been set under Windows NT

► Restart the PC in standard VGA mode.

► Set the desired resolution under *Start - Settings - Control Panel - Display* , and adjust the monitor display as described in the Operating Manual of the monitor.

Wrong monitor has been set under Windows 9x

► Restart the PC.

► If the message *Starting Windows 9x* appears, press function key **F8**.

The Windows 9x *Start* menu appears.

► Select the option *Safe mode* or *Safe mode with network support* .

► Set the desired resolution under *Start - Settings - Control Panel - Display* , and adjust the monitor display as described in the Operating Manual of the monitor.

Wrong monitor has been set under Windows 2000

- ► Restart the PC.
- ► If the message *Starting Windows* appears, press function key **F8**.

The *Windows 2000 Advanced Options Menu* appears.

- ► Select *Safe Mode* or *Safe Mode with Network*.
- ► Set the correct values for the attached monitor as described in the operating manual of the monitor by selecting *Start - Settings - Control Panel - Display - Settings* .

The wrong RAM memory modules have been inserted

See the Technical Manual for the system board for information on which memory modules can be used.

No mouse pointer displayed on the screen

- ► Shut down the operating system properly.
- ► Switch the PC off.
- ► Check that the mouse cable is properly connected to the system unit.
  If you use an adapter or extension lead with the mouse cable, check the connections.
- ► Make sure that only one mouse is connected.
- ► Switch the PC on.

The mouse controller must be enabled, if you use a PS/2 mouse on the PS/2 mouse port .

- ► Check in the *BIOS Setup* that the mouse controller is *Enabled*.
- ► Check that the mouse driver is properly installed and is present when the application programme is started. Detailed information can be found in the User Guide of the mouse and application programme.

The floppy disk cannot be read or written

- ► Check that the floppy disk is not write protected (also refer to the Technical Manual for the system board or to the BIOS manual).
- ► Check the relevant entries for *Diskette A:* or *B:* in the *Main* menu of the *BIOS Setup*.
- ► Check that the floppy disk drive controller is enabled (also refer to the Technical Manual for the system board or to the "BIOS Setup" manual).
- ► Check that the cables of the floppy disk drive are properly connected (refer to "Changing the floppy disk drive" chapter).

Time and/or date is not correct

You can set the time and date in the *BIOS Setup* or in the operating system.

► Set the time and date.

If the time and date are repeatedly wrong when you switch on your PC, the on-board battery is flat. Change the lithium battery as described in the "Replacing lithium battery" chapter.

Error messages on the screen

Error messages and their explanation are contained:

- in the Technical Manual of the system board
- in the "BIOS Setup" manual
- in the documentation for the programmes used

Restoring the hard disk contents

Instructions for this purpose can be found in the documentation (booklet) of the "Drivers & Utilities" CD.

Tips

The PC cannot be switched off with the ON/OFF switch

Cause: The PC has not been switched on with the ON/OFF switch.

► Press the ON/OFF switch again.

Cause: System crash

► Press the ON/OFF switch for at least four seconds, until the device switches off.

Out of system resources

If you have too many applications running at once, you may experience problems due to a lack of system resources. In this case you should:

► close unneeded applications

or

► run the applications in a different order

BIOS settings in Power Management are not activated (Windows 9x with APM function)

The *Auto insert notification* setting may be active for the CD-ROM drive. This setting causes Windows 9x to inquire about any modifications on the drive at regular intervals. Because of this the timer for the idle time cannot time out.

To activate power management, proceed as follows:

- ► In Windows 9x, select *Start - Settings - Control Panel - System - Device Manager - CD -ROM*.
- ► Select the installed CD-ROM drive from the list.
- ► Select *Settings*.
- ► Deactivate the *Auto insert notification* box.

CD-ROM drive

Information on the CD-ROM drive is contained:

- in the manual of the CD-ROM drive
- on the CD "Drivers & Utilities"

Other manuals

Other manuals are contained on the "Drivers & Utilities" CD.

System expansions

It may be necessary to update the BIOS when carrying out a system expansion or hardware upgrade. In this instance, please contact our customer service centre.

When installing components with a high power loss, make sure that the maximum permissible temperatures of the individual components are not exceeded.

The device must be switched off when installing/removing the system expansions and may not be in the Suspend mode.

This chapter describes all the activities required to modify your PC hardware (e.g. installing boards or drives).

Memory and processor upgrading are described in the system board Technical Manual.

Read the supplied documentation before installing new drives and/or boards.

Refer to the system board Technical Manual before making any extensions to the system board.

Information about boards

Take care with the locking mechanisms (catches and centring pins) when you are replacing the system board or components on the system board.

To prevent damage to the system board or the components and conductors on it, please take care when you insert or remove boards. Make sure expansion boards are inserted straight.

Never use sharp objects (screwdrivers) for leverage.

Boards with electrostatic sensitive devices (ESD) are identifiable by the label shown.

When you handle boards fitted with ESDs, you must, under all circumstances, observe the following points:

- You must always discharge static build up (e.g. by touching a grounded object) before working.
- The equipment and tools you use must be free of static charges.
- Remove the power plug from the mains supply before inserting or removing boards containing ESDs.
- Always hold boards with ESDs by their edges.
- Never touch pins or conductors on boards fitted with ESDs.

Opening the system unit

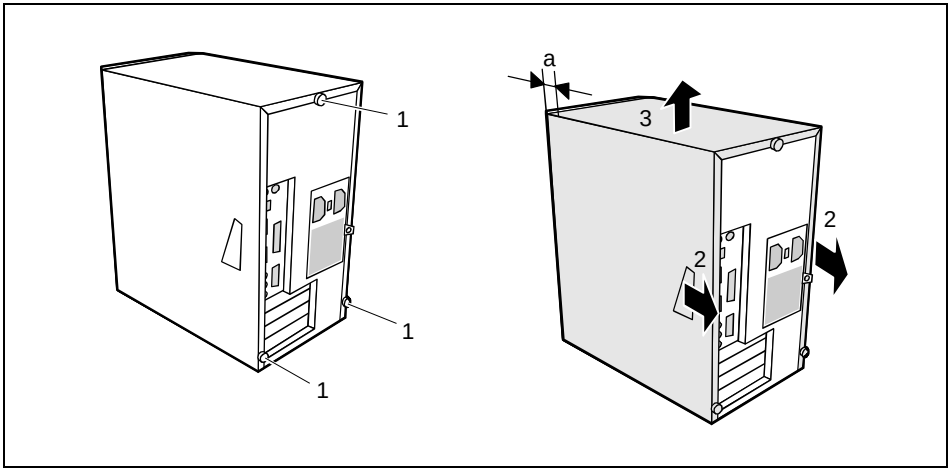
► Switch the PC off. The PC may not be in the Suspend mode!

Please take note of the safety information in the chapter "Important notes".

Pull the power plug out of the mains outlet!

► If any cables attached to the system unit are obstructing you, pull out the connectors on the system unit.

► Place the system unit in a convenient working position.

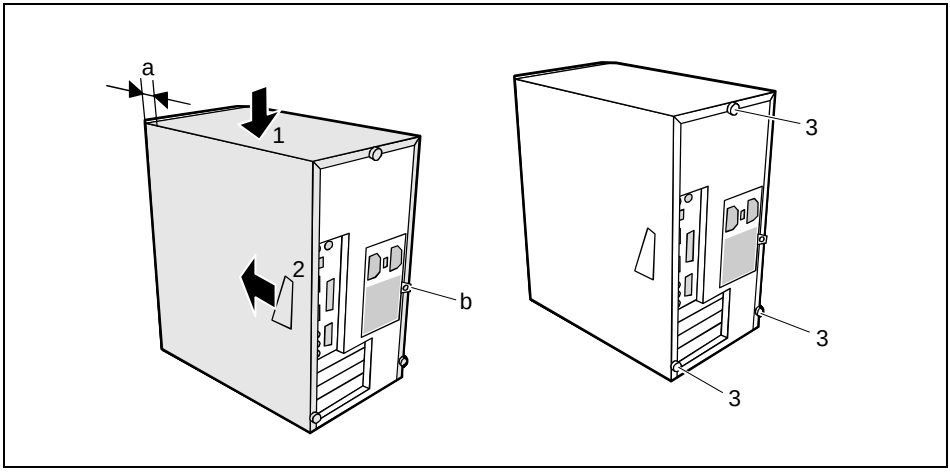


► Loosen the screws (1).

► Push the top cover in the direction of the arrow (2) until the distance (a) is approximately 10 mm.

► Lift off the top cover in an upward direction (3).

Assembling the system unit



- ► Place the top cover on the system unit in the direction of the arrow (1) so that the distance (a) is approx. 10 mm.
- ► Push the top cover in the direction of the arrow (2).

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Make sure that the eye (b) for the anti-theft protection fits in the recess on the top cover.

Check whether the top cover is mounted straight.

- ► Fasten the screws (3).
- ► Return the system unit to its original position.
- ► If you have disconnected cables, reconnect them to the connectors on the rear panel.

Installing and removing a board

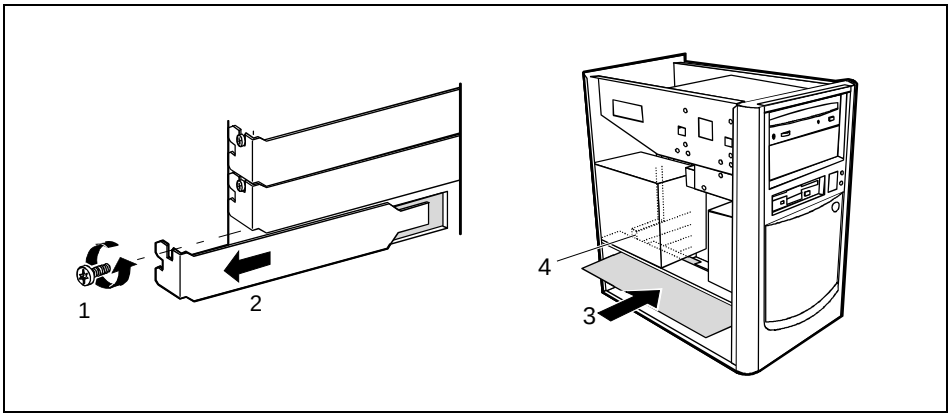
Please take note of the "Information about boards".

You can install boards which are up to 290 mm long.

The number, position and constellation of the board slots on the system board can be found in the technical manual for the system board. Boards may already be installed when the device is shipped.

Installing a board

► Open the system unit (see "Opening the system unit").



► Remove the screw (1).

► Remove the rear slot cover plate from the slot (2).

i Do not dispose of the cover plate. For cooling, protection against fire and in order to comply with EMC regulations, you must refit the cover plate if you remove the board.

► Take the new board out of its packaging.

► Make the required settings for the board.

► Push the board up to its slot (3).
Ensure that the end of a long board without angle bracket fits into the corresponding guide of the system unit.

► Press the board into the slot so that it engages.

► Fix the board with the screw (4).

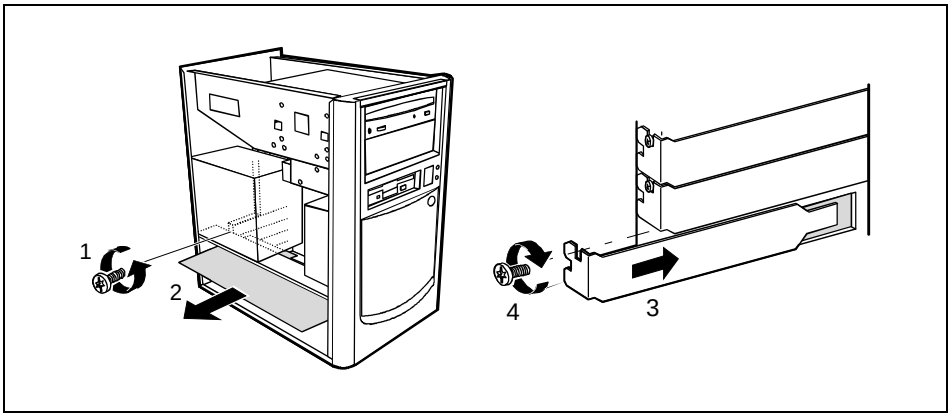
► If necessary, connect the cables.

► Close the system unit (see "Assembling the system unit").

i If you have installed or removed a PCI board, please check the relevant PCI slot settings in the *BIOS Setup*. If necessary, change the settings. Further information is provided in the PCI board documentation.

Removing a board

- ► Open the system unit (see "Opening the system unit").
- ► Disconnect the cables connected to the board.



- ► Remove the screw (1).
- ► Remove the board from the system unit (2).
- ► Place the board into appropriate packaging.

To ensure proper cooling, fire protection and observation of the relevant EMC (electromagnetic compatibility) regulations, you must mount a rear slot cover plate.

- ► Push the rear slot cover plate into the slot (3).
- ► Fasten the rear slot cover plate with the screw (4).
- ► Close the system unit (see "Assembling the system unit").

If you have installed or removed a PCI board, please check the relevant PCI slot settings in the *BIOS Setup*. If necessary, change the settings. Further information is provided in the PCI board documentation.

Installing an additional serial port

An additional serial interface can be installed in a rear slot cover plate like a board. The condition is that the system board has a free internal serial port.

- ► Connect the cable of the additional serial port to the connector on the system board.

Installing and removing drives

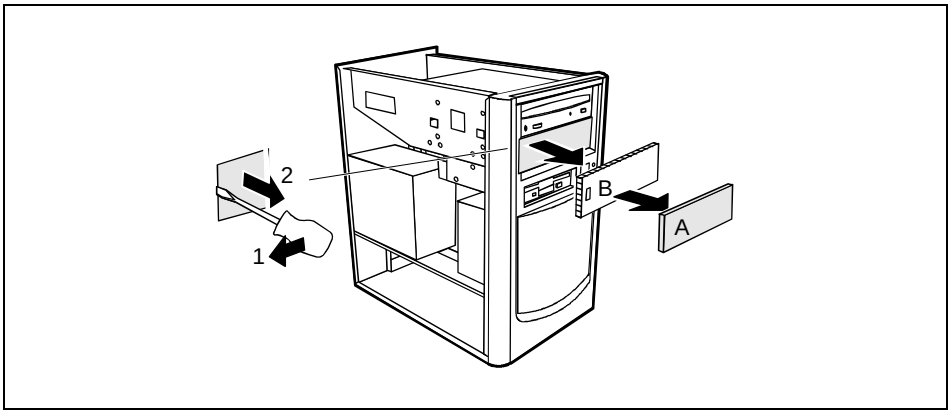
The system unit houses a total of three accessible drives (two 5 1/4-inch drives and one 3 1/2-inch drive) and one non-accessible half-height (Slimline) drive.

IDE drives

By default four IDE drives are supported. Ideally hard disks are connected to IDE port 1, and accessible drives, for example CD-ROMs, to IDE port 2 (see also the Technical Manual for the system board).

Installing an accessible drive

► Open the system unit (see "Opening the system unit").



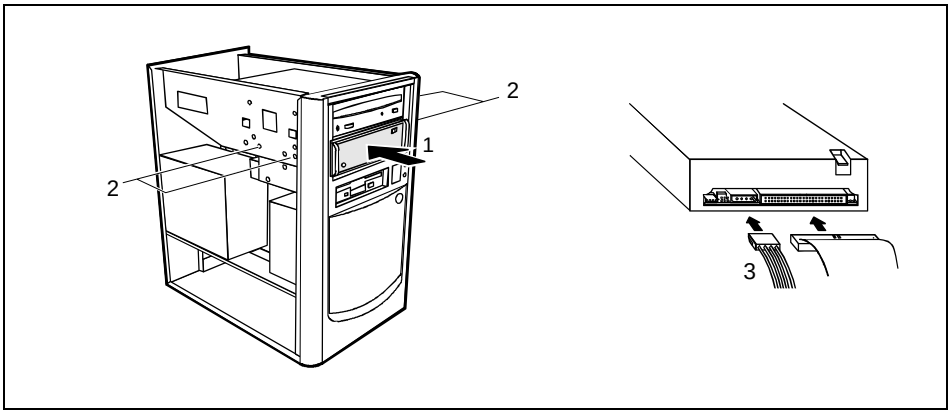
► Pry the plastic drive cover (A) out of the front cover.

► Pry the shielding plate (B) on left-hand side out of the bay.

i Do not to throw away the plastic covers. For cooling, protection against fire and in order to comply with EMC regulations, you must refit the plastic covers if you remove the drive again later.

► Take the new drive out of its packaging.

► Make the required changes to the drive settings (if necessary, to the settings of installed drives as well).

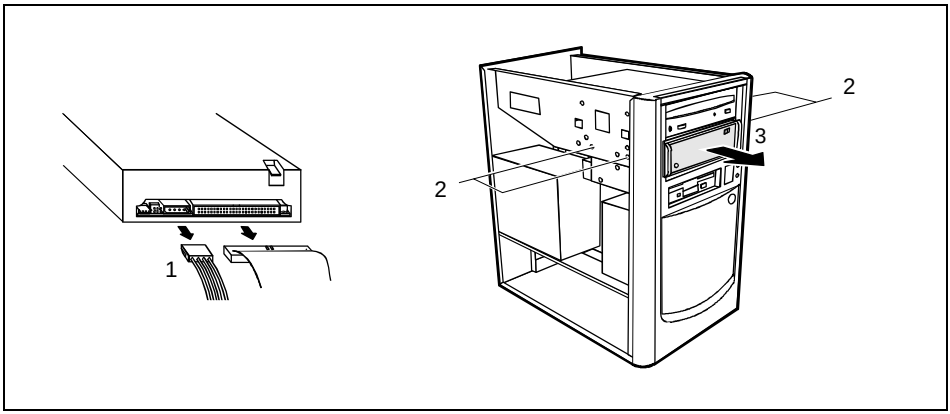


- ► Slide the drive into the system unit (1).
- ► Fasten the drive into place with the screws (2).
- ► Plug the connectors of the data cable and the power supply cable into the drive (3). Make sure the polarity is correct.
- ► Close the system unit (see "Assembling the system unit").

i You may have to check the entry for the drive in the *BIOS Setup*.

Removing an accessible drive

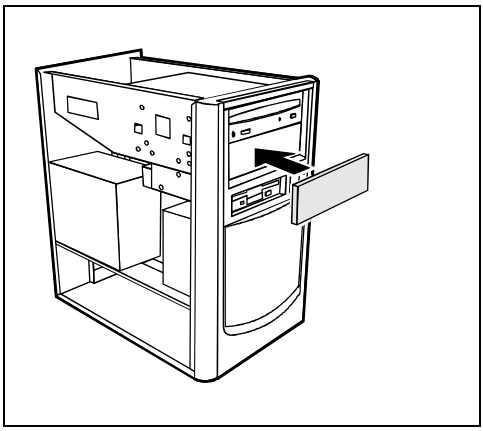
► Open the system unit (see "Opening the system unit").



► Pull the data and the power supply connectors from the desired drive (1).

► Remove the screws (2) and take the drive out of the system unit (3).

For cooling, protection against fire and in order to comply with EMC regulations, you must refit the plastic cover.



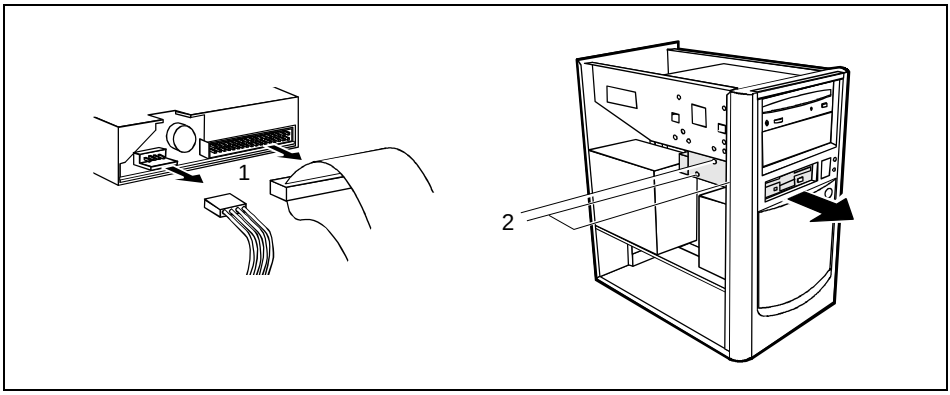
► Press the plastic drive cover into the front panel until it snaps in place.

► Close the system unit (see "Assembling the system unit").

You may have to check the entry for the drive in the *BIOS Setup*.

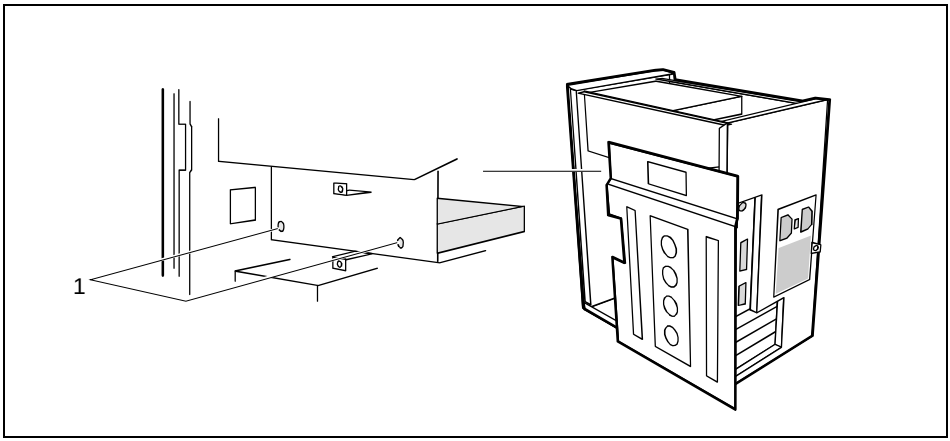
Changing the floppy disk drive

► Open the system unit (see "Opening the system unit").



► Pull the data and the power supply connectors from the floppy disk drive (1).

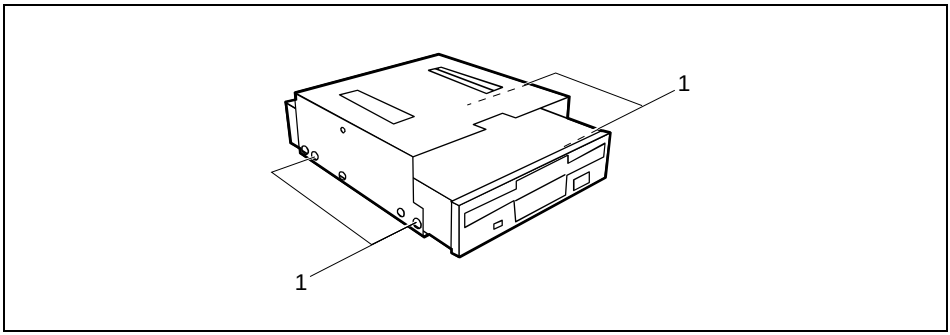
► Remove the screws (2) on the left side of the floppy disk drive.



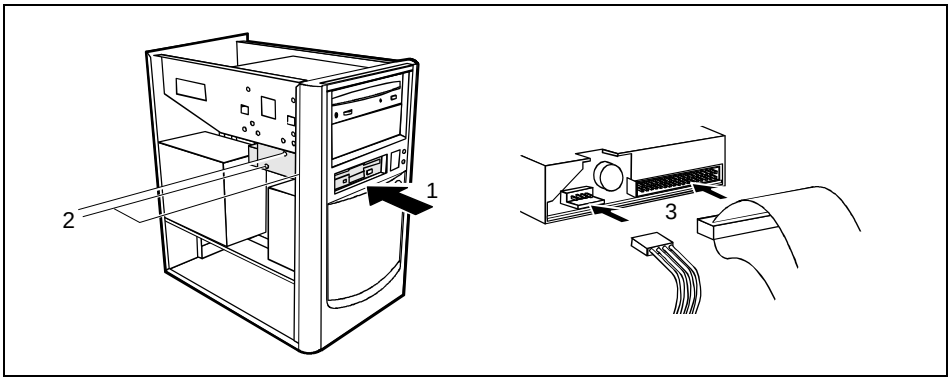
► Remove the screws (1) on the right side of the floppy disk drive.

i You may need to remove the USB front panel (see "Removing a USB front panel") before you can remove the screws on the right side of the floppy disk drive.

► Slide the drive carrier out of the system unit in the direction of the arrow.



- ► Remove the screws.
- ► Take the new floppy disk drive out of its packaging.
- ► Replace the floppy disk drive.
- ► Fasten the drive with the screws.



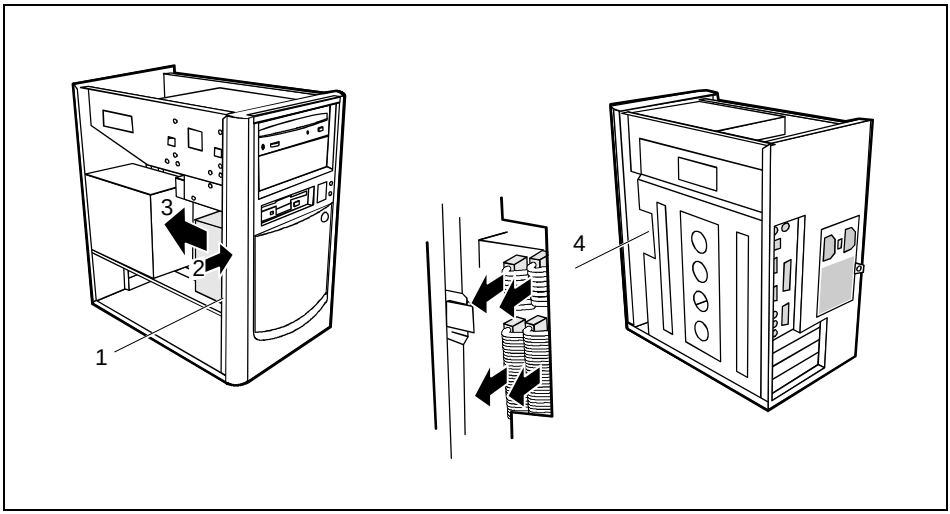
- ► Slide the drive into the system unit (1).
- ► Plug the connectors of the data cable and the power supply cable into the floppy disk drive (3). Make sure the polarity is correct.
- ► Fasten the drive with the screw (2).
- ► Close the system unit (see "Assembling the system unit").

i You may have to check the entry for the drive in the *BIOS Setup*.

Replacing a hard disk drive

► Open the system unit (see "Opening the system unit").

Removing the hard disk carrier

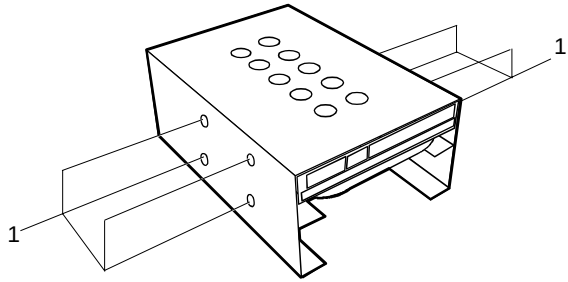


► Remove the screw (1) and push the hard disk carrier in the direction of the arrow (2) out of its securing lugs.

► Lift the hard disk carrier out of the system unit in the direction of the arrow (3).

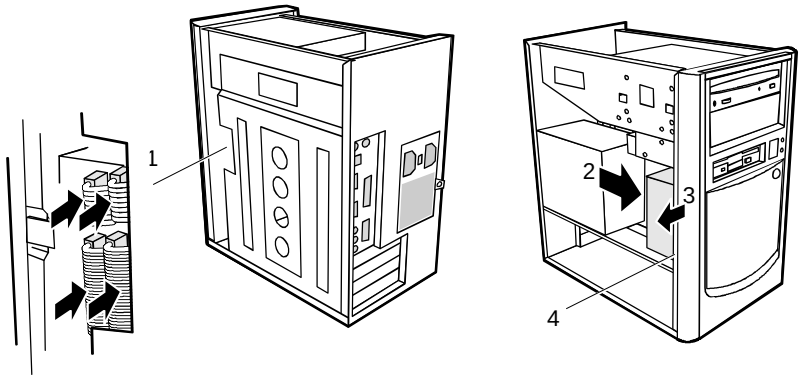
► Disconnect the cables from the hard disk drive (4).

Replacing a hard disk drive



- ► Remove the screws of the hard disk drive you want to replace.
- ► Take the new hard disk drive out of its packaging.
- ► Make the required settings (e.g. master/slave, stand alone) on the drives.
- ► Replace the hard disk drive.
- ► Fasten the hard disk drive with the screws.

Installing the hard disk carrier



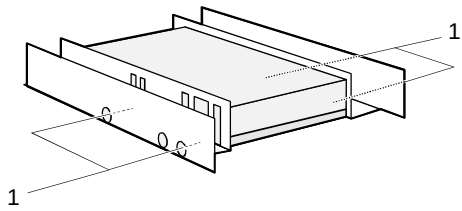
- ► Connect the cables to the hard disk drive (1).
- ► Insert the hard disk carrier in the guide rail provided for this purpose on the casing (2, 3).
- ► Fasten the hard disk carrier with the screw (4).
- ► Close the system unit (see "Assembling the system unit").

i You may have to check the entry for the drive in the *BIOS Setup*.

Mounting a hard disk drive in a 5¼" slot

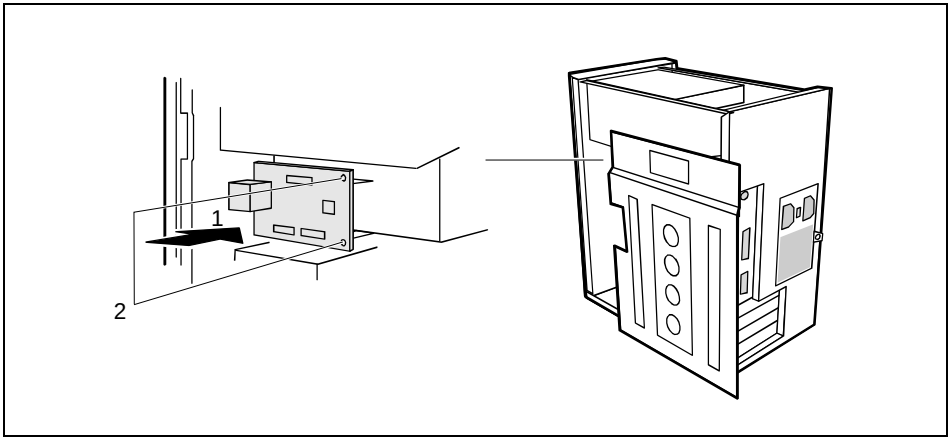
i To do this, you require a special mounting frame.

- ► Open the system unit (see "Opening the system unit").
- ► Make the required settings (e.g. master-slave) on the hard disk drives.



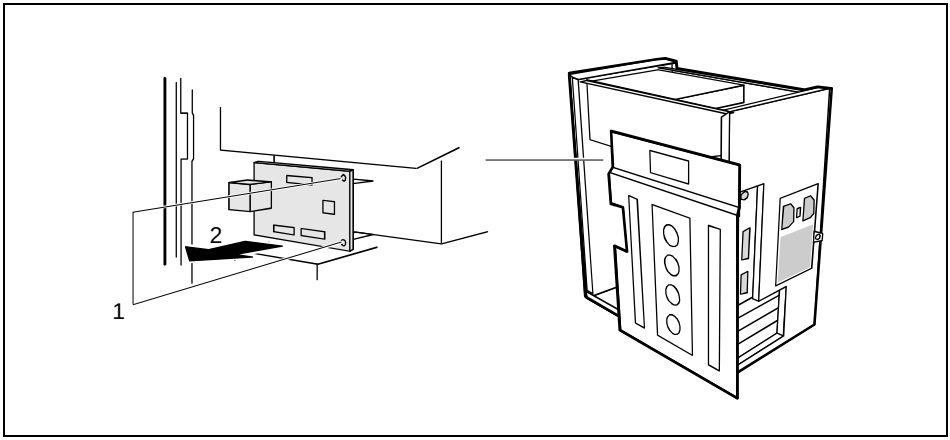
- ► Fasten the drive with the four screws in the installation frame.
- ► Install the installation frame with the drive in the desired 5¼" slot (see "Installing an accessible drive").
- ► Close the slot with the panel. Ensure that the cover engages.
- ► Close the system unit (see "Assembling the system unit").

Installing a USB front panel



- ► Remove the system board carrier as described in "Replacing processor".
- ► Remove the cover of the bay by pressing against it from the inside.
- ► Position the USB front panel in the bay (1) and secure the USB front panel with the screws (2).
- ► Connect the cable provided to the USB front panel and to the system board.

Removing a USB front panel



- ► Remove the system board carrier as described in "Replacing processor".
- ► Disconnect the cable from the USB front panel and from the system board.
- ► Remove the screws (1) and take out the USB front panel of the slot (2).
- ► Remount the bay cover from the front.

Extensions to the system board

Details of how and if you can upgrade the main memory or the processor of your PC are provided in the Technical Manual for the system board. Below the necessary steps are described to enable you to work on the system board.

- ► Open the system unit (see "Opening the system unit").

Upgrading main memory

- ► Upgrade the memory as described in the system board Technical Manual.
- ► Close the system unit (see "Assembling the system unit").

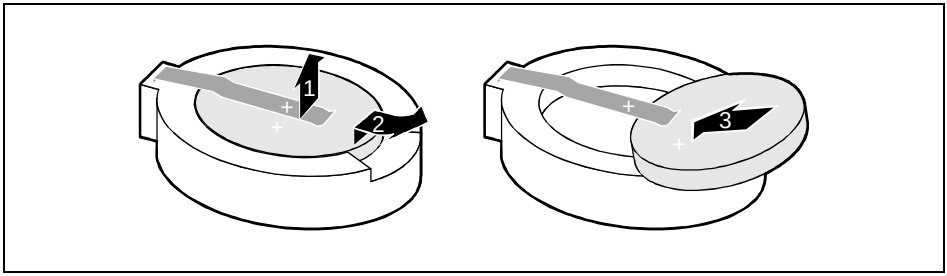
Replacing lithium battery

Incorrect replacement of the lithium battery may lead to a risk of explosion.

The lithium battery may be replaced only with an identical battery or with a type recommended by the manufacturer.

Do not throw lithium batteries into the household waste. They must be disposed of in accordance with local regulations concerning special waste.

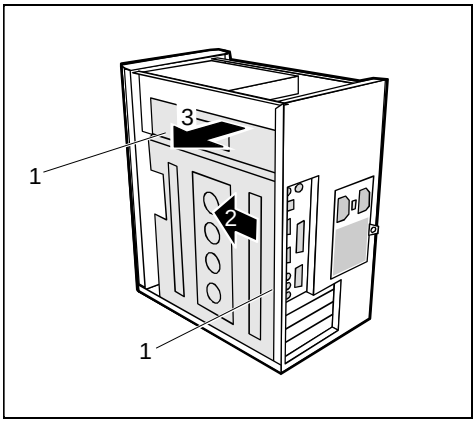
Ensure that you insert the battery the right way round. The plus pole must be on the top!



- ► Lift the contact (1) a few millimetres and remove the lithium battery from its socket (2).
- ► Insert a new lithium battery of the same type into the socket (3).

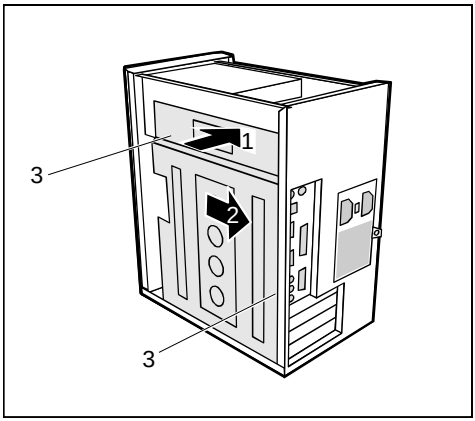
Replacing processor

To replace the processor you must remove the system board bracket.



- ► Open the system unit (see "Opening the system unit").
- ► Remove all boards (see "Removing a board").
- ► Unscrew the screw on the system board rack (1), push the system board rack somewhat in the direction of the arrow (2) and then tilt it out upward (3).

Replace the processor (see the Technical Manual of the system board).



- ► Fold the system board rack into the casing again (1) and push it back into its original position (2).
- ► Fasten the screw (3).
- ► Reinstall all boards (see "Installing a board").
- ► Close the system unit (see "Assembling the system unit").

Technical data

Electrical data

Regulations complied with:	EN 60950 / VDE 0805, UL 1950 CSA 22.2 No.950
Protection class:	I
Rated voltage range: (selectable)	100 V - 125 V / 200 V - 240 V
Frequency:	50 Hz - 60 Hz

	Power supply 110 W	Power supply 200 W
Max. rated current		
• System unit with monitor socket:	100 V -125 V / 5,5 A 200 V - 240 V / 3,0 A	7,0 A 3,5 A
• Monitor socket (output)	100 V -125 V / 3 A 200 V - 240 V / 1.5 A	3,0 A 1,5 A

Maximum power draw in operation (peak):	89 W *)
Minimum power draw in operation:	47 W *)
Power draw in energy saving mode (ACPI-S3 mode):	3,3 W *)
Power draw in 'ready-to-operate' mode (ACPI-S3 mode):	3,2 W *)

Noise emission:

- Sound pressure L_{pAm} (Idle mode): 29 dB *)
- Sound power level L_{WAd} (Operation mode): 46 dB *)
- Sound power level L_{WAd} (Idle mode): 45 dB *)

*) These values only apply for a SCENIC T with the configuration below. Installing additional components can cause the specified values for power draw and sound emission to be exceeded.

Processor (256 KB cache):	Pentium III Processor at 1 GHz
Main memory:	128 MB SDRAM
Floppy disk drive:	1.44 MB
Hard disk drive:	20 Gbyte, 5400 rpm
CD-ROM drive:	48fold
Graphics:	GM3000-16, Nvidia
Audio:	AD1885 AC'97, onboard
LAN:	3Com Fast Etherlink XL (3C99C), 10/100 Mbit Ethernet Controller

Dimensions

Width/depth/height:	196 mm/350 mm/360 mm

Weight

with the basic configuration	ca. 8 kg (78,5 N) in basic configuration

Environmental conditions

Environment class 3K2	DIN IEC 721 part 3-3
Environment class 2K2	DIN IEC 721 part 3-2

Temperature:

• Operating (3K2)	15 °C .... 35 °C
• Transport (2K2)	-25 °C .... 60 °C

Condensation in operating must be avoided.

Clearance required to ensure adequate ventilation:

• left	min. 200 mm
• front	min. 200 mm
• rear	min. 200 mm

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